

## ABSTRACT

Many proteins, when produced recombinantly, suffer from improper processing, folding and lack normal solubility. Modified proteins, including those indicative of disease states, also  
5 can have such defects. The present invention is directed to methods of identifying proper and  
improper protein folding, aberrant processing and/or insolubility. The method relies on the use  
of two components: a specialized fusion protein and structural complementation. The fusion  
protein contains sequences from the protein of interest and one portion of a marker protein that,  
by itself, is not active. A host cell then provides the remainder of the marker protein that serves  
10 to "complement" the function of the fused marker protein such that their association restores  
activity, permitting detection.

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